Conjugation

IOTest® CD80-PE

PN IM1976U – 2 mL Liquid – 20 µL / test* – Clone MAB104

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

SPECIFICITY
The CD80 antigen (B7, B7-1, or B81) is a highly glycosylated single-chain transmembrane protein, structurally similar to CD86 (B7-2 or B70), with a molecular weight of 60 kDa under non reducing conditions (1, 2). Its extracellular region is composed of two Ig-like domains. CD80 shares with CD86 the same co-receptors on T cells, CD28 and CD152 (CTLA-4) (3).

CD80 and CD86 have a critical role in one costimulatory pathway involved in the prevention of antigen-specific T-cell tolerance (anergy), mediated by ligation of CD80 on T cells by its ligands, CD80 and CD86 on antigen-presenting cells (4), interactions between T cell and CD80 (or CD86) on activated B cells result in enhanced T-cell activation (1, 5). CD152 (CTLA-4) binds CD80 and CD86 with an higher affinity and probably functions as a negative regulator for T-cell activation (6, 7). The MAB104 monoclonal antibody (mAb) reacts with *in vitro* activated B lymphocytes, some B cell lines, and weakly with a small proportion of non-activated B cells (8). This antibody also reacts with activated T cells but not with peripheral monocytes and T cells (3, 8, 9).

The MAB104 mAb was assigned to the CD50 cluster of differentiation at the 6th International Workshop on Human Leucocyte Differentiation Antigens in Kobe, Japan, in 1996 (3).

REAGENT

IOTest® CD80-PE Conjugated Antibody

PN IM1976U – 2 mL Liquid – 20 µL / test*.

Clone
MAB104

Isotype
IgG1, mouse

Immunogen
Jijoye cells (Human Burkitt Lymphoma cell line)

Hybridoma
NS1 X BALB/c

Source
Ascites fluid

Purification
Ion exchange or affinity chromatography

Conjugation
R-phycocerythrin (PE) is conjugated at 0.5 – 1.5 moles of PE per mole of Ig.

Fluorescence
PE (orange-red)

Excites at 486 – 560 nm

Emits at 568 – 590 nm

REAGENT CONTENTS

This reagent is provided in phosphate-buffered saline, with 0.1% sodium azide (NaN₃) as preservative, and 2.0 mg / mL bovine serum albumin (BSA).

STATEMENT OF WARNINGS

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposition of metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.

2. Do not use antibody beyond the expiration date on the label.

3. Samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.

4. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.

5. Minimize exposure of reagent to light.

6. Avoid microbial contamination of reagents or incorrect results might occur.

7. Proper precautions are recommended to handle this reagent.

8. EVIDENCE OF DETERIORATION

Any change in the physical appearance of this PE-labeled reagent (colorless liquid to pinkish liquid) or any major variation in values obtained for control samples may indicate deterioration and the reagent should not be used.

REAGENT PREPARATION

No preparation is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

SELECTED RESEARCH REFERENCES


PRODUCT AVAILABILITY

IOTest® CD80-PE Conjugated Antibody

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PE is licensed under patent 4,520,110.

For additional information in the USA, call 800-526-7694.

Outside the USA, contact your local Beckman Coulter representative.

www.beckmancoulter.com

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(*) 20 µL is the quantity of product sufficient to stain 5 x 10⁶ cells in a standard immunofluorescence assay